

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

THIS PAGE BLANK (USPTO)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 March 2002 (21.03.2002)

PCT

(10) International Publication Number
WO 02/23491 A2

(51) International Patent Classification?: G07D 1/00 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(21) International Application Number: PCT/US01/27555

(22) International Filing Date:
6 September 2001 (06.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/659,924 12 September 2000 (12.09.2000) US

(71) Applicant: INTERNATIONAL GAME TECHNOLOGY [US/US]; 9295 Prototype Drive, Reno, NV 89511 (US).

(72) Inventors: CHAMBERLAIN, John, W.; 1335 Buzzys Ranch Road, Carson City, NV 89701 (US). HEDRICK, Joseph, R.; 13355 W. Saddlebon Drive, Reno, NV 89511 (US). SAFFARI, Ali; 2440 Catamaran Drive, Reno, NV 89505 (US). HOLLIBAUGH, Larry, R.; 725 Silver Mine Court, Reno, NV 89511 (US).

(74) Agent: HIRSCH, Martin, J.; Marshall, Gerstein & Borun, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 02/23491 A2

(54) Title: GAMING MACHINE WITH HOPPER AND PRINTER

(57) Abstract: A gaming machine in which the form of pay out is selectable by the operator and/or user to provide a pay out with coins or by way of a ticket. The gaming machine incorporates both a hopper for coin operated play as well as a printer for cashless play. In accordance with one aspect of the machine, the system can automatically detect when one of the pay out systems is disabled or otherwise unavailable and automatically continue operation with the other pay out method to allow the machine to function in a limited state. The system thus helps the transition for players from coin operated machines to cashless gaming machines, and accommodates users with different cash out preferences. The gaming machine also accepts tickets, allowing users to easily move their credits from one gaming machine to another.

GAMING MACHINE WITH HOPPER AND PRINTER

Background of the Invention

1. Field of the Invention

The present invention relates to a gaming machine and more particularly to a gaming machine which enables the operator and/or player to select the form of pay out from the machine before cash out; either by coin or ticket, and allows a ticket to be accepted for wagers.

2. Description of the Prior Art

Various gaming machines are known in which pay outs are made either in coin or by way of a ticket. Examples of gaming machines with coin pay outs are disclosed in commonly owned U.S. Patent Nos. 4,475,564; 4,518,001; 4,574,824; 4,978,322; and 6,003,651. Such coin operated machines normally include a coin hopper in which coins are collected and transferred to a transport system. Transport systems are known which include a rotating pinwheel for segregating individual coins and transporting the coins to a coin dispenser for pay out. Coin dispensing is under the control of a microprocessor. When a payout is indicated, a counter is used for counting the coins to be dispensed.

There are several problems with such coin operated machines. For example, various mechanical problems are known with such machines. One of these problems relates to coins jamming in the machine. In order to resolve this problem, various mechanical solutions have been developed, for example, as disclosed in commonly owned U.S. Patent Nos. 4,518,001 and 4,574,824. Another known problem with such coin operated gaming machines is the ability to accurately detect the correct number of coins dispensed for a pay out. Various mechanical

and electronic systems have been developed for resolving this problem. For example, U.S. Patent No.4,475,564 relates to an improved mechanical design which improves the accuracy of the coin pay outs. In addition, commonly owned U.S. Patent No. 6,003,651 relates to an electronic sensing system for sensing when the correct number of coins have been paid out.

In addition to those problems, coin operated machines require significant amount of maintenance due to the relatively complicated mechanical mechanism used to accept and pay out coins. As such, there is a trend toward cashless gaming machines, for example, as disclosed in commonly owned U.S. Patent Nos. 5,265,874 and 5,326,104. In such cashless gaming machines, tickets rather than coins may be use for both playing the game as well as pay outs. Unfortunately, the transition from coin operated machines to cashless gaming machines is difficult for many players used to the older coin operated machines. Thus, there is a need for a gaming machine which helps players transition from the older coin operated machines to the newer cashless gaming machines.

SUMMARY OF THE INVENTION

Briefly, the present invention relates to a gaming machine in which the form of pay out is selectable by the operator and/or user to provide a pay out with coins or by way of a ticket. The gaming machine incorporates both a hopper for coin operated pay as well as a printer for cashless pay. In accordance with one aspect of the machine, the system can automatically detect when one of the pay out systems is disabled or otherwise unavailable and automatically continue operation with the other pay out method to allow the machine to function in the limited state. They system thus helps the transition for players from coin operated machines to cashless gaming machines. They system is also able to accommodate the various preferences of players, some preferring coin and some preferring tickets. The ability to accept tickets back into a gaming machine for subsequent play enables the player to easily move from one gaming machine to another.

DESCRIPTION OF THE DRAWINGS

These and other advantageous of the present invention will be readily understood with reference to the following specification and attached drawings wherein:

Fig. 1 is a perspective view of a gaming machine in accordance with the present invention.

Fig. 2 is a block diagram of the electronic meters for the gaming machine illustrated in Fig. 1.

Fig. 3 is a flow diagram of a system for accepting tickets for playing the game which forms part of the present invention.

Fig. 4 is a flow diagram of a system for accepting coins for playing the game machine illustrated in Fig. 1.

Fig. 5 is a flow diagram of a pay out system which forms part of the present invention.

Fig. 6 is a flow diagram of a pay out system which forms part of the present invention.

Fig. 7 is a flow diagram of a ticket pay out system in accordance with the present invention.

Fig. 8 is a flow diagram of a coin pay out system in accordance with the present invention.

Fig. 9 is a flow diagram of a hand pay out system in accordance with the present invention.

DETAILED DESCRIPTION OF VARIOUS EMBODIMENTS

Figs. 1-9 relate to a gaming machine which enables an operator and/or player to select the form of the pay; either by coins, or by a ticket, or by a combination of both. In this way, the player will be given the look and feel of a coin operated machine but also have the option for different forms of pay out to simplify the transition from coin operated machines to cashless gaming machines. As such, the gaming system in accordance with the present invention aids the transition for players from coin operated gaming machines to cashless gaming machines, and accommodate various players' preferences.

Referring to Fig. 1 an exemplary gaming machine is shown. The gaming machine, generally identified with the reference numeral 20, includes a housing, generally identified with the reference numeral 22. In order to provide access to the interior of the machine 20, the front portion 24 of the housing 22 may be configured to provide access to the interior of the gaming machine 20 for on-site maintenance and repair as well as for upgrades. In the exemplary gaming machine 20 illustrated in Fig. 1, various player input/output (I/O) devices are provided on the front portion 24 of the housing. For example, a plurality of player

input switches 26 are provided, that enable a player to select, for example, the form of the desired pay out, either coins or ticket. Alternatively, the player selections may be made by way of a touch screen as described below. The front housing portion 24 also includes a coin acceptor 28, a bill validator/ticket reader 30 and a coin tray 32.

A video display 34 is also carried by the gaming machine 20. The video display 34 may be a cathode ray tube display, high resolution flat panel liquid crystal display (LCD) or other conventional electronically controlled video display. An information panel 36 may be disposed adjacent the video display 34. The information panel 36 may be formed from a backlit silk screened glass panel with lettering to indicate general game information including, for example, the amount of wager. The bottom of the housing 22 may be closed by what is known as a belly glass 38.

A ticket printer 42 and a pair of speakers 44 and 46 are carried by an upper portion 40 of the housing 22. The bill validator/ticket reader 30, used to validate currency and read and/or validate machine readable tickets, along with the ticket printer 42 allow for cashless operation for a gaming machine. The coin acceptor 28 along with the coin tray 32 enable coin operated play of the gaming machine 20.

As is known in the art, an electronic storage meter set, such as the exemplary meter set 50, illustrated in Fig. 2, is required by gaming authorities. The meter set 50 includes a plurality of electronic meters which allows verification of the coins and tickets that are input to the machine as well as the coins and tickets that are paid out of the machine. In order to comply with regulatory requirements, the meter set 50 in accordance with the present invention includes the electronic meters normally provided on a coin operated gaming machine as well as electronic meters found on cashless gaming machines. The meter set 50 includes electronic meters 52, 54, 56, 58, 60, 62, 64, and 66 for the following types of data; TOTAL VALUE OF TICKETS ACCEPTED; TOTAL NUMBER OF TICKET ACCEPTED; TOTAL NUMBER OF TICKETS PRINTED; TOTAL VALUE OF TICKETS PRINTED; CREDIT; PHYSICAL COINS IN; PHYSICAL COINS OUT; AND CANCELED CREDITS, respectively.

The gaming machine in accordance with the present invention is formed to have all of the standard hardware as in a coin operated gaming machine, for example, as disclosed in U.S. Patent Nos. 4,475,564; 4,518,001; 4,574,824; 4,978,322; 5,167,571 and 6,003,651; as well as the hardware for cashless gaming machines, for example, as disclosed in U.S. Patent No.

5,265,874 and 5,326,104, hereby incorporated by reference. Figs. 3 and 4 illustrate the software for wager acceptance system, for cashless operated play and coin-operated play, respectively. Figs. 5-9 illustrate the software for the pay out system in accordance with the present invention.

The wager acceptance system, as used herein, may include one or more of the systems described below. For example, the wager acceptance system may include a conventional coin acceptor for accepting coin wagers and/or a conventional bill validator/ticket reader that can receive and validate currency as well as read and/or validate machine readable tickets, for example, encoded with a bar code, magnetic code, optical code, or electronic code all of which are known in the art. For example, commonly owned U.S. Patent No. 5,676,231 discloses a system for validating currency. U.S. Patent No. 5,949,042 discloses a system for reading machine readable information, such as bar codes.

Systems for reading magnetic information encoded on different media are also known. For example, U.S. Patent Nos. 6,098,881; 6,082,617 and 6,076,731, incorporated by reference, disclose systems for reading so called magnetic stripes encoded on the back of various media, such as plastic substrates, similar to credit cards. Yet other systems are known for reading, are known for reading, for example, magnetic tokens, for example, as disclosed in U.S. Patent No. 6,029,891.

Optical readers are also known. An exemplary optical reader is disclosed in U.S. Patent No. 6,084,824, hereby incorporated by reference.

The wager acceptance system may also include a so called smart card reader. An example of a smart card reader is disclosed in U.S. Patent No. 5,624,316, hereby incorporated by reference.

An exemplary wager acceptance system with a validator/ticket reader and coin acceptor is described below. Other types of wage acceptance systems are understood to operate in a similar manner. Referring to Fig. 3, the exemplary wage acceptance system monitors the bill validator/ticket reader 30 and the coin acceptor 28 and establishes a credit for playing the game when coins, bills or tickets are detected.

In particular, the system monitors the ticket reader 30 (Fig. 1) awaiting a ticket to be inserted into the gaming machine 20. When the system senses a ticket has been escrowed by the ticket reader 30 in step 70, it determines if the ticket is valid in step 72. If the ticket is valid, the system determines whether the entire ticket amount can be accepted in step 74. If the entire ticket amount can be accepted, the ticket is retained by the ticket reader 30 in step 76.

Subsequently, in step 78 the TOTAL NUMBER OF TICKETS ACCEPTED meter 54 (Fig. 2) is incremented, in step 80 the total ticket value is added to the TOTAL VALUE OF TICKETS ACCEPTED meter 52, and in step 82 the total ticket value is added to the CREDIT meter 60. The CREDIT meter 60 maintains the credit amount available to play the game.

If the system determines in step 74 that it cannot accept the entire ticket amount, for example, if the amount is not evenly divisible by the machine denomination or would cause the credit limit to be exceeded, the system determines in step 84 if it can accept a portion of the ticket amount and if so, in step 86, the system determines whether a printer is available. If the ticket is not valid, no portion of the ticket can be accepted, or no printer is available to print a change ticket, the ticket is rejected in step 102 and the system returns in step 104.

If the system determines that it can accept a portion of the ticket and a printer is available, the ticket is retained by the ticket reader 30 in step 88. Subsequently, in step 90 the TOTAL NUMBER OF TICKETS ACCEPTED meter 54 is incremented, and in step 92 the total ticket value is added to the TOTAL VALUE OF TICKETS ACCEPTED meter 52. In step 94 a change ticket is printed for the amount to be returned to the player, in step 96 the TOTAL NUMBER OF TICKETS PRINTED meter 56 is incremented, and in step 98 the amount of the change ticket amount is added to the TOTAL VALUE OF TICKETS PRINTED meter 58. In step 100 the amount of the ticket value that was not returned to the player is added to the CREDIT meter 60.

The software for a coin wager acceptance system is illustrated in Fig. 4. Initially, the system monitors the coin acceptor 28 (Fig. 1) to determine if coins have been deposited therein in step 106. If so, the system increments the PHYSICAL COINS IN meter 62 (Fig. 2) and the CREDIT meter 60 in steps 108 and 110. The system then determines in step 112 whether the coins inserted are equal to or greater than the minimum wager for the game 20. If not, the system continues to monitor the coin acceptor 28, otherwise it enables the game.

As discussed below, the gaming machine 20 includes a pay out system for enabling the operator and/or player to select the type of pay out to be either a cashless pay out in the form of a ticket, or a coin pay out, or a combination of both. During certain conditions as discussed below, the player may also be paid manually by the attendant. The software for pay outs is illustrated in Figs. 5-9. In particular, Fig. 5 represents the main system for operator selection of pay outs. Fig. 6 represents the main system for player selection of pay outs. Fig. 7 is a

subroutine for ticket pay outs. Fig 8 is a subroutine for coin pay outs while Fig. 9 is a subroutine for manual pay outs.

In accordance with an important aspect of the invention, the gaming machine 20 includes a pay out system which enables a player to select by way of the player input switches 26 (Fig. 1), for example, from multiple forms of pay out, for example, by way of coins or by way of a cashless payout, for example a ticket, a magnetic card or by way of a smart card. Systems for enabling coin pay outs are disclosed in commonly owned U.S. Patent Nos. 4,475,564 and 6,003,651, hereby incorporated by reference.

Cashless payouts by way of a ticket may include a printer for printing pay out information such as a pay out amount and/or in machine readable form, such as a bar code. An example of a system for printing tickets is disclosed in U.S. Patent No. 5,595,538, hereby incorporated by reference.

Other cashless payout systems include a programmer for programming magnetic media such as magnetic stripes or a smart card. Magnetic smart card programmers are known in the art. An example, of a magnetic programmer is disclosed in U.S. Patent No. 4,650,978, while an example of a smart card programmer is disclosed in U.S. Patent No. 5,624,316, both hereby incorporated by reference.

In situations where the payout is over the coin pay limit of the machine, the machine 20 may provide for a split option, which allows the pay out to be split between coins and a ticket. In one embodiment, this option may be configured by an operator during set up of the machine, for example, by way of a touch screen, for example as disclosed in commonly owned U.S. Patent No. 6,007,426, hereby incorporated by reference. Alternatively, the option may be selected by the player, for example, by the player input switches 26 or by touch screen as discussed above.

In other embodiments, the gaming machine may be configured at least in part remotely, for example, in response to a remote signal, for example, from a remote data base, which may be used to configure a machine in response to certain data, for example, as disclosed in U.S. Patent No. 5,470,079, hereby incorporated by reference.

Turning first to Fig. 5, the system monitors the status of the player input switches 26 on the front portion 24 of the housing 22 or touch screen interface to detect a player request for pay out in step 114. If the system determines that a printer is available for player cash outs in step

116, the cash out amount is compared to an operator selected coin pay limit in step 118. If the cash out amount is greater than the coin pay limit, the system checks to see if the split pay option has been enabled in step 120. If split pay is enabled, an amount equal to the coin pay limit is paid from the hopper in step 122, by way of the system steps illustrated in Fig. 8, and the balance is paid by ticket in step 124, by way of the system steps illustrated in Fig. 7. If split pay was not enabled in step 120, the entire cash out is paid by ticket in step 126. If the cash out amount was not over the coin pay limit in step 118, the entire cash out is paid by the hopper in step 130. However, if the printer is not available for player cash out in step 116, for example, due to a printer malfunction, or inability to validate a ticket, the cash out amount is compared to the hopper limit in step 128. If the cash out is greater than the hopper limit, it results in a hand pay in step 132 by way of the system steps illustrated in Fig. 9, otherwise it is paid by the hopper in step 130.

Fig. 6 is a system to for handling the same cash out, where the configuration of the payout parameters may be provided by operator configuration of the gaming machine 20 as discussed above, or by a central data base, and subsequently optionally adjusted by the player. If the system determines that a printer is available for player cash outs in step 134, the system determines default pay out amounts for the printer and hopper in step 136 based on operator configuration as described in Fig. 5, or information derived from another source, such as a central data base, or information stored on a magnetic stripe card or smart card. In step 138, the system determines whether the player is to be allowed to select how much of the cash out is to come from the hopper and how much is to come from the printer. If play selection of cash out parameters is enabled, system flow proceeds to step 140. The player is provided with two pay out options; coin and ticket. Initially, the system monitors the state of the player input switches 26 of the front portion 24 of the housing 22 to determine which pay out option has been selected; either coin or ticket. In order to account for various situations, the system may enable a split pay option to allow for pay outs in both coin and ticket. Depending on the player selection, the system will pay out according to the player's selection to the extent possible considering the status of the machine and the amount of the pay out, paying out the selected coin amount in step 142 and the selected ticket amount in step 144. Should the system determine in step 134 that the printer is not available, the system next checks in step 146 whether the pay out amount exceeds the hopper limit. If it does not, the system initiates a coin pay out in step 148.

Otherwise, an attendant or hand pay is initiated in step 150. With this option, a gaming machine attendant is signaled to make a manual pay out to the player.

Figs. 7-9 describe the system steps to accomplish each of the individual pay out procedures for ticket, coin, or hand pays. Referring first to Fig. 7, if a ticket pay out has been initiated, as discussed above and determined in step 152, the system prints the ticket for the pay out amount in step 154. The system also increments the TOTAL NUMBER OF TICKETS PRINTED meter 56 (Fig. 2) and updates the TOTAL VALUE OF TICKETS PRINTED meter 58 in steps 156 and 158, respectively. The CREDIT meter 60 is updated in step 160, by subtracting the value of the printed ticket from the CREDIT meter 60.

Fig. 8 illustrates the software for a coin pay out. Initially, if a coin pay out is initiated as discussed above in step 162, coins are paid out by way of a hopper in step 164. The PHYSICAL COINS OUT meter 64 (Fig. 2) is updated in step 166 and the CREDIT meter 60 is updated in step 168 by subtracting the number of coins paid out by way of the hopper.

As mentioned above, there are several circumstances in which neither the ticket pay out or the coin pay out are possible. In these situations, as discussed above, a hand or attendant pay out is initiated. Whenever a hand pay out is initiated, as in step 170, the system locks up the machine in step 172. The machine remains in a locked out condition until a gaming machine attendant actuates a key-operated switch which is monitored in step 174. After the key operated switch is actuated, the pay out amount is displayed in step 176, the hand pay amount is added to the TOTAL CANCELED CREDIT meter in step 178, and the CREDIT meter 60 is updated in step 180.

Obviously, many modifications and variations of the present invention are possible in light of the above teachings. Thus, it is to be understood that, within the scope of the appended claims, the invention may be practiced otherwise than as specifically described above.

WHAT IS CLAIMED IS:

1. A gaming machine comprising:
a wager acceptance system for receiving wagers and establishing a credit to enable a player to play the gaming machine where the form of the wagers include machine readable tickets; and
a pay out system for pay out to a player when a pay out condition is indicated, said pay out system including a coin pay out system and a ticket pay out system.
2. The gaming machine as recited in claim 1, wherein said wager acceptance system comprises a coin acceptor.
3. The gaming machine as recited in claim 1, wherein said wager acceptance system comprises a reader.
4. The gaming machine as recited in claim 3, wherein said reader comprises a card reader.
5. The gaming machine as recited in claim 4, wherein said card reader comprises a magnetic stripe card reader.
6. The gaming machine as recited in claim 4, wherein said card reader comprises a smart card reader.
7. The gaming machine as recited in claim 3, wherein said reader comprises a paper money reader and validator.
8. The gaming machine as recited in claim 1, wherein said pay out system comprises a card programmer.

9. The gaming machine as recited in claim 8,, wherein said card programmer can be utilized to program magnetic stripe cards.

10. The gaming machine as recited in claim 1, wherein said pay out system is configured to split the pay out between the coin pay out system and the ticket pay out system by the operator.

11. The gaming machine as recited in claim 1, wherein said pay out system is configured to split the pay out between the coin pay out system and the ticket pay out system by the player.

12. The gaming machine as recited in claim 11, wherein said configuration is selected by the use of player input buttons.

13. The gaming machine as recited in claim 11, wherein said configuration is selected by the use of a touch interface on the gaming machine.

14. The gaming machine as recited in claim 11, wherein said configuration is determined from a remote signal.

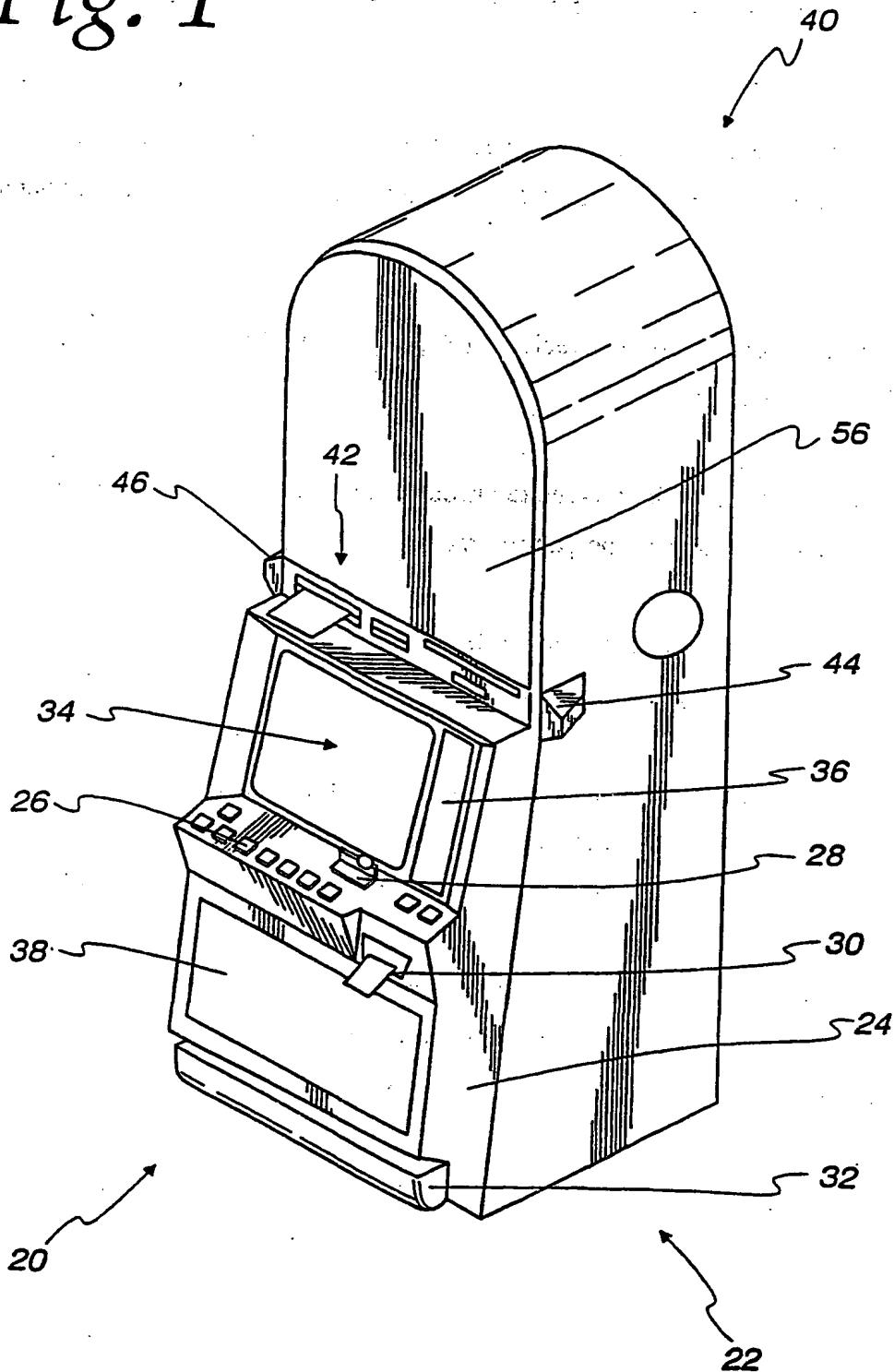
15. The gaming machine as recited in claim 1, wherein said pay out system is configured by the gaming machine to pay out entirely to the ticket pay out system, when the gaming machine has determined that the coin pay out system is unable to perform the pay out.

16. The gaming machine as recited in claim 1, wherein said pay out system is configured by the gaming machine to pay out entirely to the coin pay out system, when the gaming machine had determined that the ticket pay out system is unable to perform the pay out.

17. The gaming machine as recited in claim 11, wherein said configuration is determined from a remote signal.

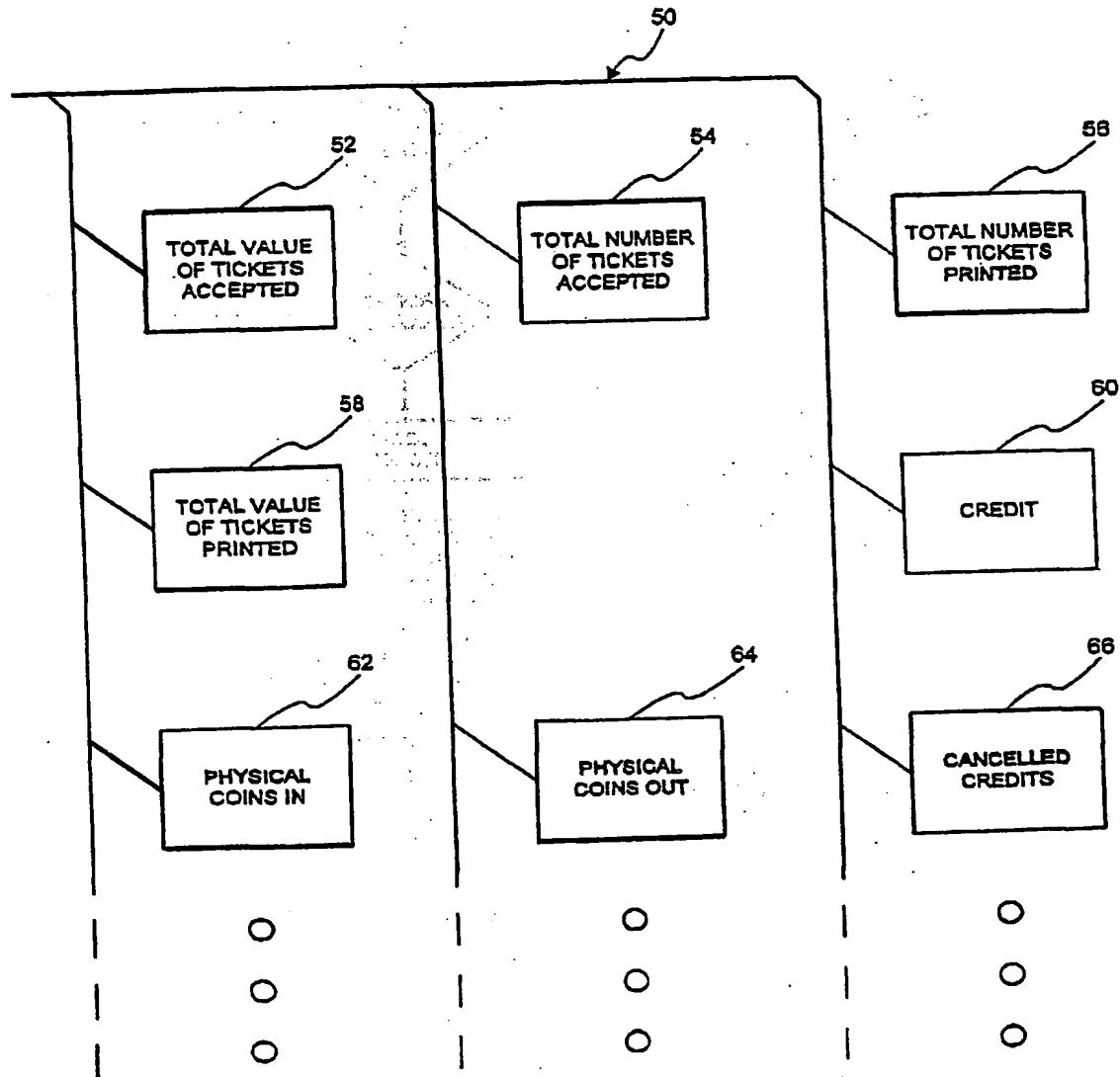
1 / 7

Fig. 1



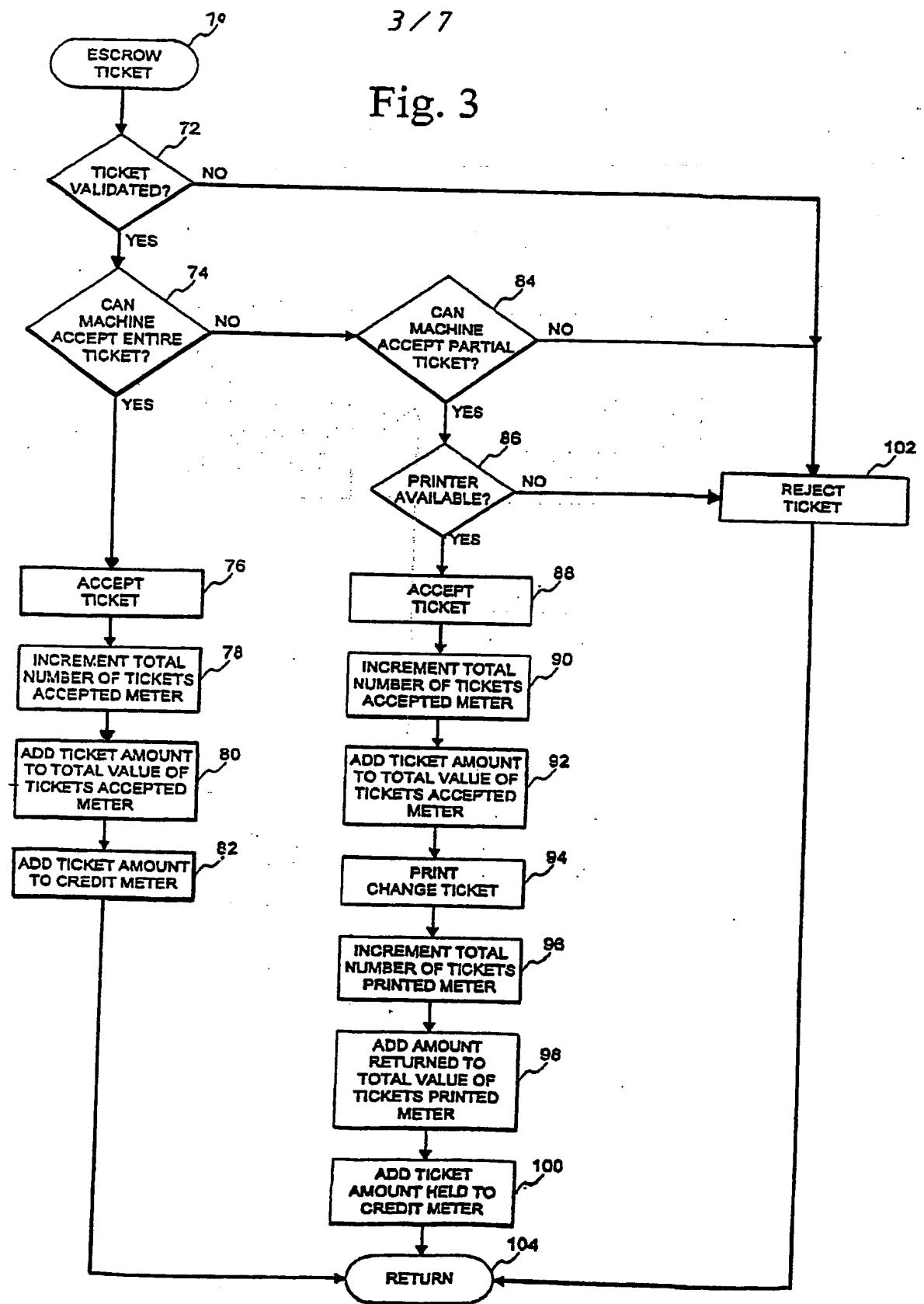
2 / 7

Fig. 2



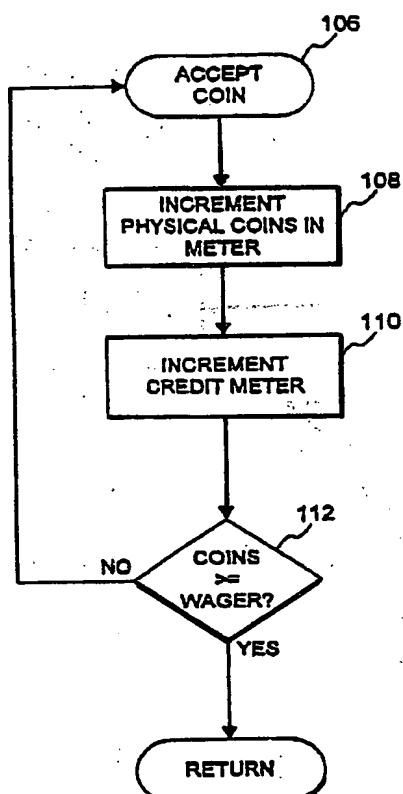
3 / 7

Fig. 3



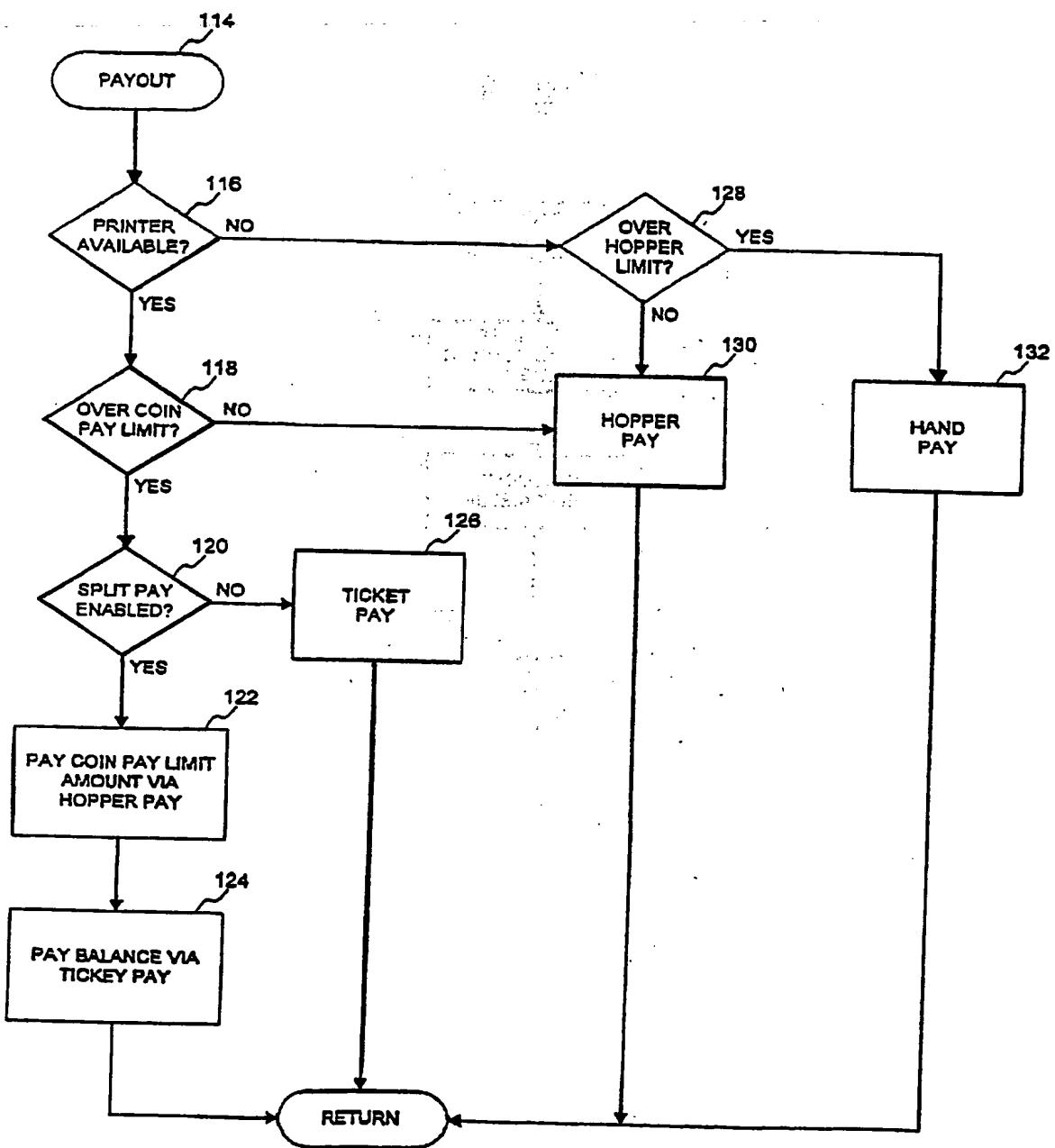
4 / 7

Fig. 4



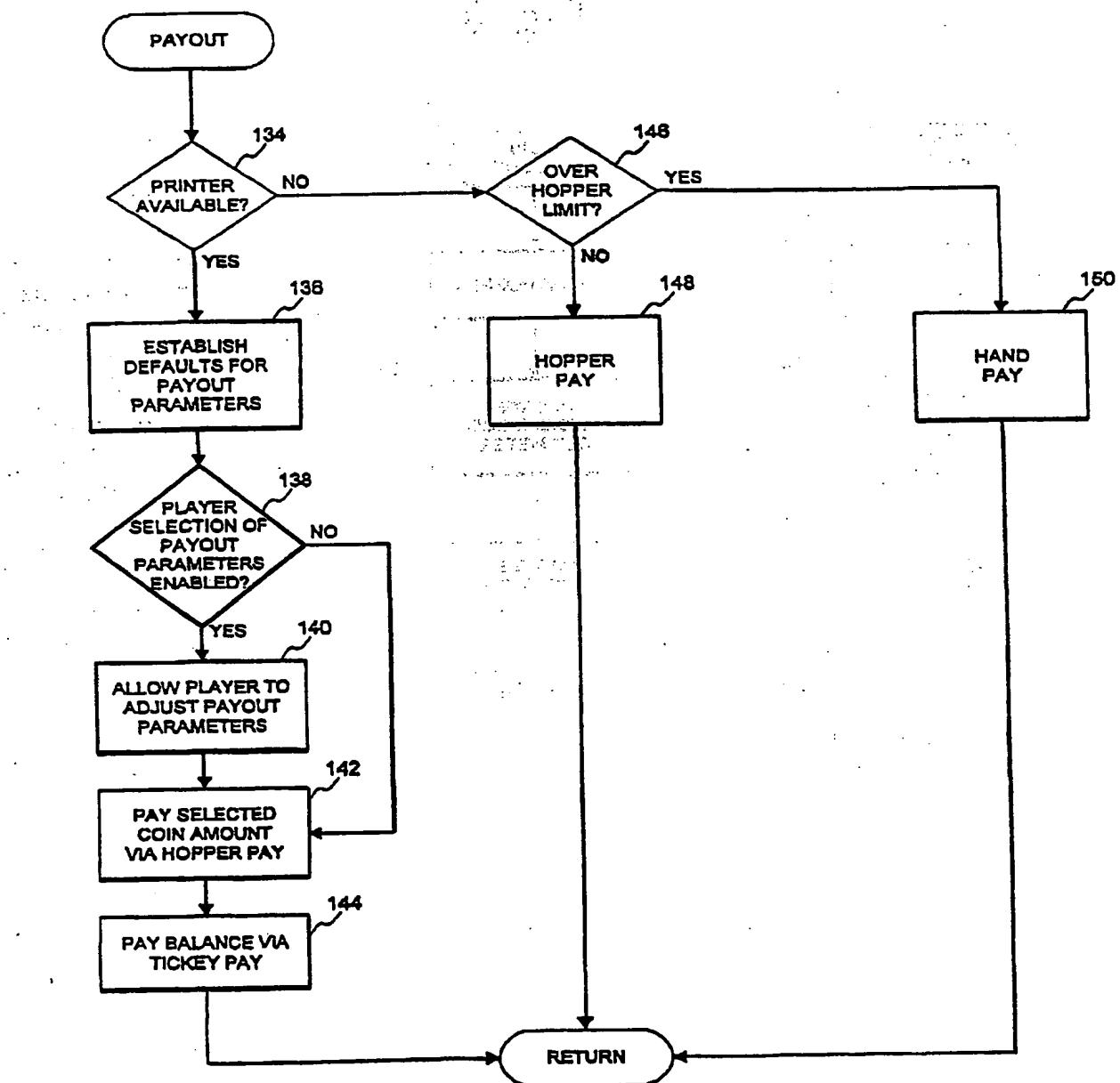
5 / 7

Fig. 5



6 / 7

Fig. 6



7 / 7

Fig. 7

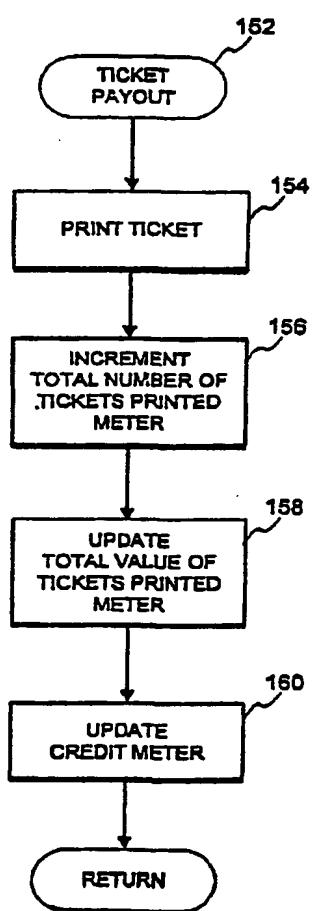


Fig. 8

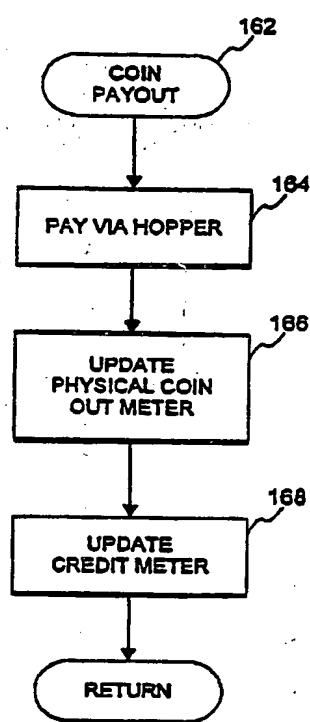
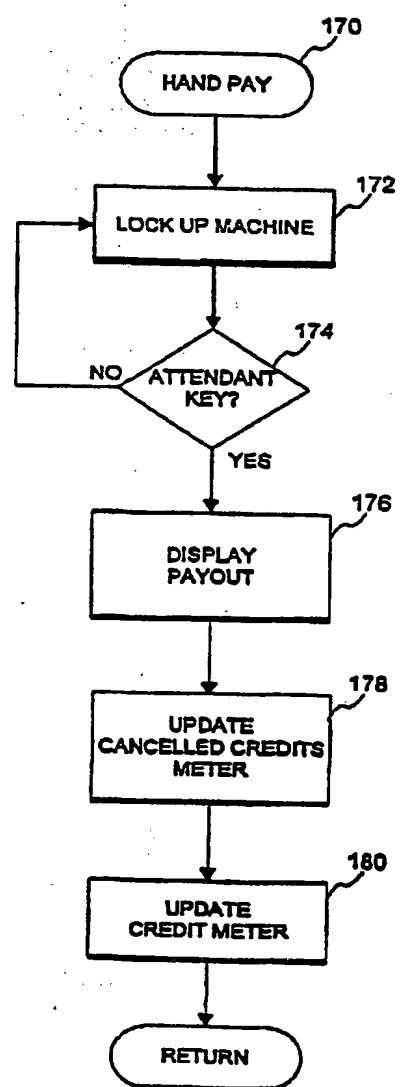


Fig. 9



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 March 2002 (21.03.2002)

PCT

(10) International Publication Number
WO 02/023491 A3

(51) International Patent Classification⁷: **G07F 17/32**

(21) International Application Number: **PCT/US01/27555**

(22) International Filing Date:
6 September 2001 (06.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/659,924 12 September 2000 (12.09.2000) US

(71) Applicant: **INTERNATIONAL GAME TECHNOLOGY [US/US]; 9295 Prototype Drive, Reno, NV 89511 (US).**

(72) Inventors: **CHAMBERLAIN, John, W.; 1335 Buzzys Ranch Road, Carson City, NV 89701 (US). HEDRICK, Joseph, R.; 13355 W. Saddlebon Drive, Reno, NV 89511**

(US). SAFFARI, Ali; 2440 Catamaran Drive, Reno, NV 89505 (US). HOLLIBAUGH, Larry, R.; 725 Silver Mine Court, Reno, NV 89511 (US).

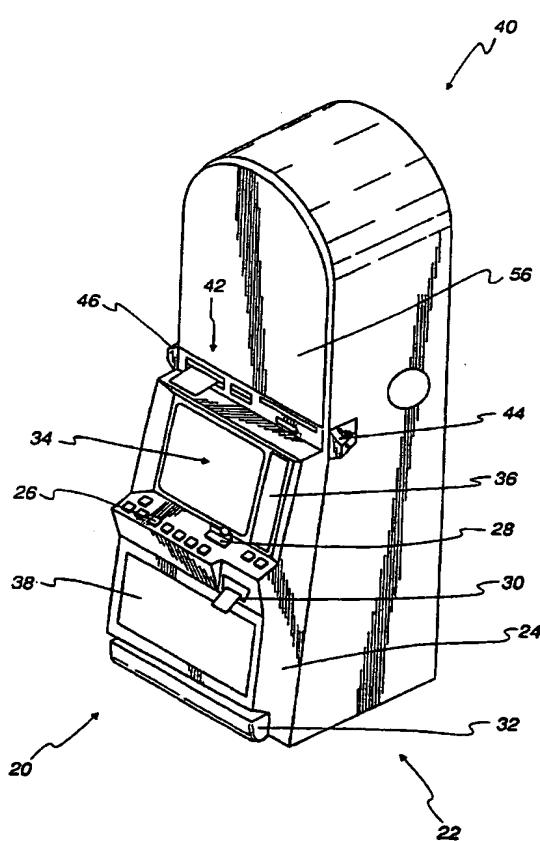
(74) Agent: **HIRSCH, Martin, J.; Marshall, Gerstein & Borun, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606 (US).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European

[Continued on next page]

(54) Title: GAMING MACHINE WITH HOPPER AND PRINTER



(57) Abstract: A gaming machine in which the form of pay out is selectable by the operator and/or user to provide a pay out with coins or by way of a ticket. The gaming machine incorporates both a hopper for coin operated play as well as a printer for cashless play. In accordance with one aspect of the machine, the system can automatically detect when one of the pay out systems is disabled or otherwise unavailable and automatically continue operation with the other pay out method to allow the machine to function in a limited state. The system thus helps the transition for players from coin operated machines to cashless gaming machines, and accommodates users with different cash out preferences. The gaming machine also accepts tickets, allowing users to easily move their credits from one gaming machine to another.

WO 02/023491 A3



patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
1 August 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/27555

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G07F17/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 575 374 A (NICOLAI ALAIN ET AL) 19 November 1996 (1996-11-19) column 4, line 17 - line 27; claim 1; figure 2 --- DE 41 21 985 A (NSM AG) 30 July 1992 (1992-07-30) column 3, line 48 - line 53 column 6, line 39 - line 46 abstract; claims 1,11-13 --- US 6 048 269 A (BURNS JAMES G ET AL) 11 April 2000 (2000-04-11) column 2, line 32 - line 48; figures 2-4 ---	1-17 1-3,7, 10-13, 15,16 1,3-7
A	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

31 May 2002

Date of mailing of the International search report

06/06/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5B18 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Reule, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/27555

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 397 125 A (ADAMS WILLIAM R) 14 March 1995 (1995-03-14) column 2, line 35 - line 52 ---	1,2
A	US 6 113 098 A (ADAMS WILLIAM R) 5 September 2000 (2000-09-05) column 1, line 37 - line 55 ---	1,2
A	DE 196 49 619 A (NSM AG) 4 June 1998 (1998-06-04) claims 1,3 ---	14,17

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/27555

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5575374	A	19-11-1996	EP DE DE ES JP US US	0650148 A1 69306392 D1 69306392 T2 2095021 T3 7175959 A 5706925 A 5697482 A	26-04-1995 16-01-1997 03-04-1997 01-02-1997 14-07-1995 13-01-1998 16-12-1997
DE 4121985	A	30-07-1992	DE DE	4121985 A1 4143556 C2	30-07-1992 11-05-2000
US 6048269	A	11-04-2000	AT AU CA DE DE DE EP ES GR JP WO US	190856 T 6027394 A 2132019 A1 69423555 D1 69423555 T2 639998 T1 0639998 A1 2073387 T1 95300045 T1 7505079 T 9416781 A1 2002034977 A1	15-04-2000 15-08-1994 04-08-1994 27-04-2000 09-11-2000 18-01-1996 01-03-1995 16-08-1995 31-07-1995 08-06-1995 04-08-1994 21-03-2002
US 5397125	A	14-03-1995	AU AU	673630 B2 7910394 A	14-11-1996 29-06-1995
US 6113098	A	05-09-2000	AU AU DE GB WO	740272 B2 6257199 A 19983571 T0 2357621 A 0016864 A1	01-11-2001 10-04-2000 09-08-2001 27-06-2001 30-03-2000
DE 19649619	A	04-06-1998	DE	19649619 A1	04-06-1998

THIS PAGE BLANK (USPTO)